

WHAT IS CLAIMED IS:

1. A processing system including at least two electronic units of a first electronic unit and a second electronic unit,

the first electronic unit operating according to a first operation program, comprising:

first storing means for storing the first operating program; and

first retrieving means for retrieving, from an external unit, a first rewrite program for rewriting the first operation program stored in the first storing means,

wherein the first electronic unit newly retrieves, from the external unit, a first operation program by executing the first rewrite program retrieved by the first retrieving means to rewrite the first operation program stored in the first storing means using the newly retrieved first operation program,

the second electronic unit operating according to a second operation program, comprising:

second storing means for storing the second operating program; and

second retrieving means for retrieving, through the first electronic unit, a second rewrite program for rewriting the second operation program stored in the second storing means,

wherein the second electronic unit newly retrieves, through the first electronic unit, a second operation program by executing the second rewrite program retrieved by the second retrieving means to rewrite the second operation program stored

in the second storing means using the newly retrieved second operation program,

wherein the first rewrite program includes a transfer routine for transferring the second rewrite program to the second electronic unit, and

wherein, when the first electronic unit retrieves, from the external unit, a rewrite request for rewriting the second operation program, the first electronic unit executes the transfer routine to transfer the second rewrite program to the retrieving means of the second electronic unit.

2. The processing system of Claim 1,

wherein, when the external unit rewrites the first and second operating programs, the external unit outputs the second rewrite program to the first electronic program and then outputs the second operation program after the external unit rewrites the first operating program by the first rewrite program.

3. The processing system of Claim 1,

wherein the first storing means includes a first nonvolatile memory for storing the first operating program and a first memory for storing the first rewrite program, while the second storing means includes a second nonvolatile memory for storing the second operating program and a second memory for storing the second rewrite program.